

ASTUTE 2020

(Advanced Sustainable Manufacturing Technologies)

Project Description

ASTUTE 2020 the multi-University partnership (Swansea, Cardiff, Aberystwyth Universities, University of South Wales and University of Wales Trinity Saint David), is working together with the Welsh manufacturing industry to embed advanced and sustainable technologies.

ASTUTE 2020 can support manufacturing companies across a variety of sectors, such as aerospace, automotive, energy generation, oil and gas, medical devices, electronics, foods, etc., stimulating growth by applying advanced engineering technologies to manufacturing challenges driving cutting-edge research and innovation. ASTUTE 2020 collaborations inspire manufacturing companies to improve and streamline their manufacturing processes, manufactured products and supply chain, generating sustainable, higher value goods and services and bringing them to a global market.

Delivery Model

ASTUTE 2020's true industry-academia collaborations provide companies with access to:

- World-class academic experts across a University partnership
- Highly qualified researchers and technical experts
- State-of-the-art research facilities and experimental equipment
- Intelligent systems, advanced techniques and bespoke software

Thereby encouraging stimulation of ideas and facilitating the adoption of change through research, development and innovation (RD&I).

Geographical Coverage

The project will benefit local authority areas across the whole of Wales.

Specific Targets

- Enterprises co-operating with supported research institutions
- Enterprises receiving non-financial support
- Patents registered for products/processes
- Private investment matching public support in innovation or R&D projects
- Enterprises supported to introduce new to the firm products/processes
- Enterprises supported to introduce new to the market products/processes
- Employment increase in supported enterprises
- Further increase in employment
- Increased investment by the company
- Increased spend by the company in local supply chain
- Increased external investment into the company
- Predicted increase in sales revenue
- Predicted increase in export revenue
- Savings in energy, GHG emission and waste

Contact Details

Rhian Jeffs
Swansea University Bay Campus
College of Engineering – Engineering Central A114
Fabian Way
Swansea
SA1 8EN

✉ info@astutewales.com

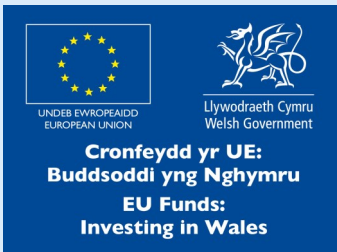
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ASTUTE 2020 (Uwch dechnolegau Gweithgynhyrchu Cynaliadwy)

Disgrifiad o'r Prosiect

Y bartneriaeth aml-Brifysgol (Prifysgolion Abertawe, Caerdydd, Aberystwyth, Prifysgol De Cymru a Phrifysgol Cymru Y Drindod Dewi Sant), yn galluogi lefelau uwch o arloesi busnes mewn gweithgynhyrchu y dyfodol. Mae ASTUTE 2020 yn cydweithio â diwydiant gweithgynhyrchu Cymru i ymgorffori technolegau uwch a chynaliadwy'r dyfodol.

Gall ASTUTE 2020 gefnogi cwmnïau gweithgynhyrchu ar draws amrywiaeth o sectorau, megis awyrfod, modurol, cynhyrchu ynni, olew a nwy, dyfeisiau meddygol, electroneg, bwydydd ac ati, gan ysgogi twf drwy ddefnyddio uwch dechnolegau peirianeg i ymdrin â heriau gweithgynhyrchu ac felly arwain gwaith ymchwil ac arloesi sydd ar flaen y gad. Mae cydweithrediadau ASTUTE yn ysbrydoli cwmnïau gweithgynhyrchu i wella a moderneiddio eu prosesau gweithgynhyrchu, eu cynnyrch gweithgynhyrchu a'u cadwyn gyflenwi, gan greu nwyddau a gwasanaethau sy'n gynaliadwy ac o werth uwch, a'u cynnig i farchnad fyd-eang.

Model Cyflawni

Mae cydweithrediadau gwirioneddol ASTUTE 2020 rhwng diwydiant ac academi yn darparu i gwmnïau:

- Arbenigwyr academiaidd o safon fyd-eang ar draws bartneriaeth prifysgol
- Ymchwilwyr ac arbenigwyr technegol â chymwysterau rhagorol,
- Cyfleusterau ymchwil a chyfarpar arbrofi heb eu hail
- Systemau clyfar, uwch dechnegau a meddalwedd bwrpasol

Trwy hynny, mae'n ysgogi datblygiad o syniadau ac yn hwyluso'r broses o fabwysiadu newid drwy waith ymchwil, datblygiad ac arloesi (YD&A).

Cwmpas Daeryddol

Bydd y prosiect o fudd i ardaloedd awdurdodau lleol ledled Cymru gyfan.

Targedau Penodol

- Mentrau sy'n cydweithio â sefydliadau ymchwil a gefnogir
- Mentrau sy'n cael cymorth nad yw'n ariannol
- Patentau cofrestredig ar gyfer cynhyrchion/prosesau
- Buddsoddi preifat sy'n cyfateb i gymorth cyhoeddus mewn prosiectau arloesi neu ymchwil a datblygu
- Mentrau a gefnogir i gyflwyno cynhyrchion/prosesau newydd i'r cwmni
- Mentrau a gefnogir i gyflwyno cynhyrchion/prosesau newydd i'r farchnad
- Cynyddu cyflogaeth mewn mentrau a gefnogir
- Cynnydd pellach mewn cyflogaeth
- Mwy o fuddsoddiad gan y cwmni
- Mwy o wariant yn y gadwyn gyflenwi leol gan y cwmni
- Mwy o fuddsoddiad allanol i'r cwmni
- Cynyddu reffeniw gwerthiannau a ragfynegwyd
- Cynyddi reffeniw allforio a ragfynegwyd
- Arbedion o ran ynni, allyriadau nwyon tŷ gwydr a gwastraff

Manylion Cyswilt

Rhian Jeffs
Prifysgol Abertawe Campws y Bae
Coleg Peirianeg – Canolfan Beirianeg A114
Ffordd Fabian
Abertawe, SA1 8EN

✉ info@astutewales.com

☎ 01792 606378

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